

---

## CONTENTS OF VOLUME 32 — 1982

---

### The Psychological Record

a quarterly journal in theoretical  
and experimental psychology

EDITOR: Charles E. Rice  
*Kenyon College*

ASSOCIATE EDITOR: Jon L. Williams  
*Kenyon College*

BOOK REVIEW EDITOR: Irvin S. Wolf  
113 Pyracantha Lane Leesburg, Florida 32748

#### BOARD OF EDITORS

NEIL R. BARTLETT, *University of Arizona*  
S. HOWARD BARTLEY, *Memphis State University*  
SIDNEY W. BIJOU, *University of Arizona*  
AARON J. BROWNSTEIN, *University of North Carolina*  
CHARLES M. BUTTER, *University of Michigan*  
DAVID A. CHISZAR, *University of Colorado*  
DONNA M. CONE, *Department of Mental Health, Rhode Island*  
ROBERT S. DANIEL, *University of Missouri*  
GORDON G. GALLUP, Jr., *State University of New York, Albany*  
ARTHUR GUTMAN, *Florida Institute of Technology, Melbourne*  
HARRIS HILL, *Lexington, Kentucky*  
PAUL D. ISAAC, *Ohio State University*  
ROLF O. KROGER, *University of Toronto*  
PARKER E. LICHTENSTEIN, *Leesburg, Florida*  
ROBERT W. LUNDIN, *University of the South*  
DAVID O. LYON, *Western Michigan University*  
MARION WHITE McPHERSON, *University of Akron*  
JAY MOORE, *University of Wisconsin, Milwaukee*  
EDWARD K. MORRIS, *University of Kansas*  
PAUL T. MOUNTJOY, *Western Michigan University*  
ROGER D. RAY, *Rollins College*  
EDWARD P. RILEY, *State University of New York, Albany*  
DAVID C. ROWE, *University of Oklahoma*  
THEODORE R. SARBIN, *University of California, Santa Cruz*  
KARL E. SCHEIBE, *Wesleyan University*  
JAMES C. SMITH, *Florida State University*  
WILLIAM STEPHENSON, *University of Missouri*  
PAUL SWARTZ, *University of Alberta*  
JEFF S. TOPPING, *Mississippi State University*  
EDWARD L. WALKER, *Pebble Beach, California*

MANAGING EDITOR: Frances Kline  
Student Assistant: Jeremy Johnson

COPY EDITOR: Mary Finkbeiner  
Cover by Martin Garhart

We wish to acknowledge those individuals who contributed to Volume 32 by reviewing articles in particular areas of interest and expertise. Our appreciation is extended to the following: **Vernon Allen**, Univ. Wisconsin; **Jack Brehm**, Univ. Kansas; **W. F. Buskist**, Auburn Univ.; **W. Miles Cox**, Univ. Minnesota; **Allan Fenigstein**, Kenyon College; **P. J. Gruenewald**, Los Angeles; **T. E. Hugaman**, DePauw Univ.; **S. T. Higgins**, Univ. Kansas; **Richard Hoppe**, Kenyon College; **Joe Jackson**, Univ. Texas; **John Karpicke**, Bell Laboratories; **Kenneth King**, Kenyon College; **Michael Levine**, Kenyon College; **Shannon Moeser**, Memorial Univ., St. Johns, Newfoundland; **A. M. Prestrude**, Virginia Polytechnic Institute & State Univ.; **Roddy Roediger**, Univ. Toronto; **Duane Rumbaugh**, Georgia State Univ.; **Linda Smolak**, Kenyon College; **Beverly E. Thorn-Gray**, Ohio State Univ.; **Charles VanDyne**, Kenyon College; **D. A. Wilder**, Rutgers Univ.; **Donald W. Zimmerman**, Carleton Univ., Ottawa.

Published at KENYON COLLEGE, Gambier, Ohio 43022

## CONTENTS OF VOLUME 32 - 1982

## ARTICLES

AINSWORTH, L.L. Effects of Illumination Changes on Infant Monkey Contacts with Surrogates .....	513
BAENNINGER, RONALD Operant Performance at a Feeding Station in Rural Pennsylvania .....	537
BAKER, CLAUDE D., see AINSWORTH, L.L. ....	513
BENJAMIN, LUDY T., Jr. From Bottle-Fed Chimp to Bottlenose Dolphin: A Contemporary Appraisal of Winthrop Kellogg .....	461
BENNETT, R.H., see BUSKIST, W.F. ....	445
BEST, JOHN B. Religiosity and Self-Destruction .....	35
BIEDERMAN, G.B. The Preference-for-Signaled-Shock Phenomenon: Signal Salience in Symmetrical-Choice Procedures .....	93
BLANCHARD, ROBERT J., see MAST, MARIAN .....	151
BLANCHARD, D. CAROLINE, see MAST, MARIAN .....	151
BROOKS, ZACK, see McHALE, MAUREEN A. ....	85
BRUCE, DARRYL, see BENJAMIN, LUDY, T., JR. ....	461
BUCKALEW, L.W. The Role of Psychology in Multicultural Education .....	121
BURNS, RICHARD A., see DAVIS, STEPHEN F. ....	225
BUSKIST, W.F. The Study of Human Operant Behavior, 1958-1981: A Topical Bibliography .....	249
BUSKIST, W.F. Preference for Familiar-Positive Diet is Unaffected by Lithium Toxicosis: The Garcia Effect and Recovery from Thiamine Deficiency .....	445
CHISZAR, DAVID, see WELLBORN, SANTFORD .....	169
CLOHISY, DANIEL J., see ODEN, BRETT G. ....	281
COWLES, MICHAEL P., see KOHN, PAUL M. ....	205
CULLARI, SALVATORE Bateson and Behaviorism .....	349
DAVIS, CAROLINE A., see KOHN, PAUL M. ....	205
DAVIS, STEPHEN F. Odor-Based Double-Alternation Patterning as a Function of Various Types of Liquid Reinforcement .....	225
DENI, RICHARD Effect of Cross-Litter Pup and Cage Bedding Exchanges on Huddling in Rat Pups .....	543
DENNY, M. RAY, see JOHNSON, C. MERLE .....	315
EMURIAN, H.H., see RAY, R.L. ....	19
FELDMAN, MAURICE A. The Effect of Command Preexposure on Instruction-Following Behavior in Severely Retarded Adolescents .....	529
FENNER, DOUGLAS, see GUTMAN, ARTHUR .....	215
FLEMING, D.E., see BUSKIST, W.F. ....	445
FOLTIN, RICHARD W. Effects of Extinction on Responding Maintained Under a Second-Order Schedule of Food Presentation in Rhesus Monkeys .....	519
FRANCOIS, GARY R., see ODEN, BRETT G. ....	281
FUREDY, J.J., see BIEDERMAN, G.B. ....	93
GRAY, STEVEN G. Physiological Responsivity to a Socially Stressful Situation: The Effect of Level of Moral Development .....	29
GREENE, ROBERT J. An Application of Behavioral Technology to the Problem of Nuisance Bears .....	501
GUTMAN, ARTHUR Signaled Reinforcement, Extinction, Behavioral Contrast, and Autopecking .....	215
HEIGHINGTON, G.A., see BIEDERMAN, G.B. ....	93
HICKEY, RICHARD S., see BUCKALEW, L.W. ....	121
HOWARD, A. JEAN, see DAVIS, STEPHEN F. ....	225
HUGHES, HOWARD H., see GRAY, STEVEN G. ....	29
HUNT, ROBERT W., see KOHN, PAUL M. ....	205
JOHNSON, C. MERLE Inhibition of Performance as a Function of Withdrawal from Nonreinforcement in a Partial Reinforcement Situation .....	315
KANTOR, J.R. Psychological Retardation and Interbehavioral Maladjustment .....	305
KENDALL, STEPHEN B. Percentage Reinforcement and Behavioral Contrast in Chain Schedules .....	75

KIDD, RONALD V. An Interbehavioral Approach to Operant Analysis .....	41
KING, DONALD L. Concept Learning: Similarity and Number of Exemplars, Category Number Information, and Description of Prototypical Features .....	109
KIRK, WILLIAM G., see BEST, JOHN B. ....	35
KOHN, PAUL M. Volunteering in Principle, Volunteering in Fact, and Experience Seeking .....	205
KRAMER, MIRIAM E. Universal and Personal Helplessness: A Test of the Reformulated Model .....	329
LAMAL, PETER A., see SOHN, DAVID .....	179
LEEMING, FRANK C. The Resistance to Reinforcement Technique for Measuring Inhibition .....	435
LONGO, JOSEPHINE, see DENI, RICHARD .....	543
MARKESSINI, JOAN, see MURRAY, FRANK B. ....	375
MAST, MARIAN The Relationship of Freezing and Response Suppression in a CER Situation .....	151
McHALE, MAUREEN A. Incentive Shifts with Different Massed and Spaced Trial Cues .....	85
MIELE, JOSEPH, see DENI, RICHARD .....	543
MIERNICKI, MICHAEL, see DENI, RICHARD .....	543
MILLER, H.L., JR., see BUSKIST, W.F. ....	249
MILLER, H.L., JR., see BUSKIST, W.F. ....	445
*MOLINA, E.J. A Demonstration of Recovery in Controlled Continuing Association .....	381
MURRAY, FRANK B. A Semantic Basis of Nonconservation of Weight .....	375
NATALICIO, LUIZ, see KIDD, RONALD V. ....	41
NEWMAN, LAUREN A., see KING, DONALD L. ....	109
OBERDIECK, FERNANDO, see TARTE, ROBERT D. ....	101
OBSERVER Comments and Queries: Structure and Function Categories in Civilization and in Science .....	127
OBSERVER Comments and Queries: Unity and Disunity in Science and in Psychology .....	291
OBSERVER Comments and Queries: Immense Learning: Discrepant Knowledge .....	567
ODEN, BRETT G. Interanimal Transfer of Learned Behavior Through Injection of Brain RNA .....	281
PAUL, COLEMAN, see PISACRETA, RICHARD .....	269
PISACRETA, RICHARD Effects of Differential Punishment of Temporally Spaced Responding .....	269
PISACRETA, RICHARD Free-Operant Escape-Avoidance with Sequential Warning Stimulus II: Effects of Differential Signal Order Reversal, Extinction, Signal Elimination, and Punishment .....	551
RAY, R.L. Sustained Blood Pressure Responding During Synthetic Work .....	19
REDMON, WILLIAM K., see CULLARI, SALVATORE .....	349
RIDER, DAVID P. Sensitivity of Responding to Simple vs. Complex Contingencies of Reinforcement .....	365
ROSELLINI, ROBERT A., see KRAMER, MIRIAM E. ....	329
SANTI, ANGELO Hue Matching and Hue Oddity in Pigeons: Is Explicit Training Not to Peck Incorrect Hue Combinations a Sufficient Condition for Transfer? .....	61
SCHNEIDER, LAWRENCE, J., see GRAY, STEVEN G. ....	29
SCHUSTER, CHARLES R., see FOLTIN, RICHARD W. ....	519
SCUDDER, KENT M., see WELLBORN, SANTFORD .....	169
SILVERS, MERYL, see DENI, RICHARD .....	543
SIMKINS, LAWRENCE Biofeedback: Clinically Valid or Oversold? .....	3
SMITH, HOBART M., see WELLBORN, SANTFORD .....	169
SMITH, NOEL W. Brain, Behavior, and Evolution .....	483
SOHN, DAVID Self-Reinforcement: Its Reinforcing Capability and Its Clinical Utility .....	179
SPARENBORG, S.P., see BUSKIST, W.F. ....	145
STEPHENSON, WILLIAM Q-Methodology, Interbehavioral Psychology, and Quantum Theory .....	235
STIMAC, KATHRYN, see WELLBORN, SANTFORD .....	169
TARTE, ROBERT D. Conditioned Defensive Burying in Rats as a Function of Preexposure and Strain .....	101

TYSON, PAUL D. A General Systems Theory Approach to Consciousness, Attention, and Meditation .....	491
VOORHEES, JAMES W., see DAVIS, STEPHEN F .....	225
WEINER, HAROLD Histories of Response Omission and Human Operant Behavior Under a Fixed-Ratio Schedule of Reinforcement .....	409
WELLBORN, SANTFORD Investigatory Behavior in Snakes III: Effects of Familiar Odors on Investigation of Clean Cages .....	169
WILSON, SUSAN, see DENI, RICHARD .....	543
WOLACH, ALLEN H., see McHALE, MAUREEN A. ....	85
WOLF, THETA H. A New Perspective on Alfred Binet: Dramatist of Le Théâtre de l'Horreur .....	397
WONG, F.K., see BIEDERMAN, G.B. ....	93
ZIMMERMAN, DONALD W. The Universe—An Unscientific Concept .....	337

## BOOK REVIEWS AND BOOK NOTES

ABELL, G.O., & SINGER, B. (Eds.). <i>Science and the Paranormal</i> . (Paul T. Mountjoy) .....	452
ALCOCK, JAMES E. <i>Parapsychology: Science or Magic?</i> (Gordon Hammerle) .....	577
ARIÈS, PHILIPPE <i>The Hour of Our Death</i> . (N.H. Pronko) .....	299
BIJOU, S.W., & RUIZ, ROBERTO (Eds.). <i>Behavior Modification: Contributions to Education</i> . (Edward K. Morris) .....	140
BONNER, JOHN TYLER <i>The Evolution of Culture in Animals</i> . (N.H. Pronko) .....	144
CHOMSKY, NOAM <i>Rules and Representations</i> . (N.H. Pronko) .....	141
DAVIDSON, J.M., & DAVIDSON, J.R. (Eds.). <i>The Psychobiology of Consciousness</i> . (David Chiszar) .....	143
DOLEZAL, H. <i>Living in a World Transformed</i> . (N.H. Pronko) .....	455
FRAZIER, K. (Ed.). <i>Paranormal Borderlands of Science</i> . (Paul T. Mountjoy) .....	452
GARDNER, M. <i>Science: Good, Bad, and Bogus</i> . (Paul T. Mountjoy) .....	452
HALEM, LYNNE CAROL <i>Divorce Reform</i> . (Margaret E. Madden) .....	575
HERDT, G.H. <i>Guardians of the Flutes: Idioms of Masculinity</i> . (Paul T. Mountjoy) .....	297
KANTOR, J.R. <i>Interbehavioral Philosophy</i> . (Parker E. Lichtenstein) .....	137
KASSCHAU, RICHARD A., & COFER, CHARLES N. (Eds.). <i>Psychology's Second Century: Enduring Issues</i> . (Noel W. Smith) .....	456
MONTAGU, ASHLEY <i>Growing Young</i> . (Parker E. Lichtenstein) .....	576
MORRIS, D. <i>Animal Days</i> . (David Chiszar and Hobart M. Smith) .....	453
NEWTON-SMITH, W.H. <i>The Rationality of Science</i> . (N.H. Pronko) .....	456
PERKINS, D.N. <i>The Mind's Best Work</i> . (N.H. Pronko) .....	455
SARASON, SEYMOUR B. <i>Psychology Misdirected</i> . (Donna M. Cone) .....	299
SMITH, EDWARD E., & MEDIN, DOUGLAS L. <i>Categories and Concepts</i> . (Parker E. Lichtenstein) .....	576
SMITH, P.K., & CONNOLLY, K.J. <i>The Ecology of Preschool Behaviour</i> . (Linda Smolak) .....	451
UTTAL, WILLIAM R. <i>A Taxonomy of Visual Processes</i> . (Charles E. Rice) .....	300
VALLE, RONALD S., & von ECKARTSBERG, ROLF (Eds.). <i>The Metaphors of Consciousness</i> . (N.H. Pronko) .....	299
WERTSCH, JAMES V. (Ed.). <i>The Concept of Activity in Soviet Psychology</i> . (Parker E. Lichtenstein) .....	577

## ERRATUM

\*MOLINA, E.J. *A demonstration of recovery in controlled continuing association*, 1982, 32, 381-396. First paragraph on page 384, sentence beginning on line 10 should read "The speed of the cumulative recorder arm was set at 2.54 cm (1 inch) per 5 min."

